AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claims 1-26 have been cancelled.

27. (New) A method for operating a refrigeration plant, which comprises in a refrigeration circuit a compressor (5), a condenser, an injection valve (6) and an evaporator (1), which is passed through on its secondary side by a secondary medium to be cooled down, whereby a heat exchanger (4) is provided between a feed line for the secondary medium and a refrigerant line leading to said injection valve (6), and whereby the temperature (A) of the refrigerant at the entrance of the injection valve (6) is kept constant, thereby achieving a stable operation of and hence a highly efficient evaporation in the refrigeration circuit.

28. (New) The method according to claim 27, wherein the mass flow of the cooled-down secondary medium is at least partly passed through the heat exchanger (4) in a parallel or counter-flow or cross-flow with respect to the refrigerant flow by means of a first valve (11).

29. (New) A method according to claim 27, whereby the refrigerant leaving said evaporator (1) is passed through an internal heat exchanger (2), which may operate as a second evaporating means.

30. (New) A method according to claim 29, whereby, by means of a second valve (9) provided between said refrigerant line leading to said injection valve (6) and said internal heat exchanger (2), a predetermined part of the refrigerant mass flow is passed through said internal heat exchanger (2), while the remaining mass flow is directly conducted to said injection valve (6), to additionally keep the temperature (A) of the refrigerant at the entrance of the injection valve (6).

31. (New) A refrigeration plant for conducting the method according to one of the claims 27-30, whereby said refrigeration plant comprises in a refrigeration circuit a compressor (5), a condenser, an injection valve (6) and an evaporator (1), which is passed through on its secondary side by a secondary medium to be cooled down, whereby a heat exchanger (4) is provided between a feed line for the secondary medium and a refrigerant line leading to said injection valve (6), which heat exchanger is passed through by said refrigerant on its primary side, and by said cooled-down secondary medium on its secondary side.

32. (New) Refrigeration plant according to claim 31, whereby a first valve (11) is arranged at the secondary side of said heat exchanger (4), such that the mass flow of said cooled-down secondary medium is at least partly passed through said heat exchanger in a parallel or counter-flow or cross-flow with respect to the refrigerant flow.

33. (New) Refrigeration plant according to claim 31, whereby the refrigerant leaving said evaporator (1) is passed through an internal heat exchanger (2), and whereby a second valve (9) is provided between said refrigerant line leading to said injection valve (6) and said internal heat exchanger (2), such that a predetermined part of the refrigerant mass flow is passed through said internal heat exchanger (2) , while the remaining mass flow is directly conducted to said injection valve (6).